

COPY

January 13, 1975

Mr. C. L. Sheppard
Sheppard, Morgan and Schwaab, Inc.
Consulting Engineers
215 Market Street
Alton, IL 62002

EPA Region 5 Records Ctr.



296514

Dear Mr. Sheppard:

This letter is in response to your request for geologic information for a landfill permit application on an existing landfill site for general municipal refuse. The location of the landfill is part of the SW $\frac{1}{4}$ of the SE $\frac{1}{4}$ and part of the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$, all in Section 30, T. 7 N., R. 9 W., Maccupin County, Illinois. A field investigation was made at this site on January 8, 1975.

Land surface elevations at the site vary from approximately 600 to 630 feet above sea level. The site is located on an eastward sloping hillside above a small southward flowing stream.

There are no well records on file at the Geological Survey at this location. Regional data suggest that the unconsolidated glacial drift varies from approximately 20 to 50 feet thick. The glacial drift is composed mainly of silts (loess) over compact Illinoian-age glacial till. Small supplies of ground water are available locally from thin, permeable zones in the glacial drift. Residents in this area rely on cisterns or shallow dug wells for their water supply.

The shallow bedrock is the Modesto Formation of the Pennsylvanian System, and consists of intercalated layers of shale, sandstone, limestone and coal. The shallow bedrock is not considered an aquifer at this location.

In conclusion, from a preliminary hydrogeologic evaluation the site appears suitable for a sanitary landfill with little potential to pollute regional ground water.

Sincerely,

Robert H. Gilkeson
Research Assistant
Section of Ground-Water Geology
and Geophysical Exploration